

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/002784

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C10G45/10, C10G45/44, C10G65/04, B01J23/44, B01J29/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C10G45/00-45/72, C10G65/04-65/08, B01J23/44, B01J29/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2002-178635 A (Nippon Petrochemicals Co., Ltd.), 26 June, 2002 (26.06.02), Claim 2; Par. Nos. [0006] to [0012] & CN 1318620 A	8, 9 1-7
X A	JP 2002-523555 A (Exxon Research & Engineering Co.), 30 July, 2002 (30.07.02), Par. Nos. [0009], [0023] to [0024] & WO 00/11117 A1 & US 6180842 B1 & EP 1127100 A1	8, 9 1-7

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
10 June, 2004 (10.06.04)Date of mailing of the international search report  
06 July, 2004 (06.07.04)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	WO 2002/021623 A1 (UTC Fuel Cells, LLC), 14 March, 2002 (14.03.02), & JP 2004-508457 A & AU 7805801 A & EP 1325530 A1 & CN 1449592 T	8,9 1-7
Y	J. Grootjans and C.Olivier, 'An improved process for the production of environmentally friendly diesel fuels', HYDROTREATMENT AND HYDROCRACKING OF OIL FRACTIONS, Elsevier Science B.V., 1997, Vol.106, ISBN 0-444-825568, pages 17 to 25	8,9
Y	JP 64-66292 A (Shell International Research Maatschappij B.V.), 13 March, 1989 (13.03.89), Claims; page 3, lower left column, line 18 to lower right column, line 8; example 1 & DE 3865580 A & EP 303332 A1 & FR 2619390 A & US 4960505 A1 & MX 1070167 B & KR 9701186 B	8,9
X	JP 2002-511516 A (Institut Francais du Petrole), 16 April, 2002 (16.04.02), & FR 277290 A1 & WO 99/52993 A1 & EP 1070108 A1	1-9
A	JP 10-183144 A (Institut Francais du Petrole), 14 July, 1998 (14.07.98), & EP 849350 A1 & FR 2757532 A & US 6042716 A1 & US 62212239 B1 & US 2001/0013485 A1	1-9
A	JP 2002-501551 A (Exxon Research & Engineering Co.), 15 January, 2002 (15.01.02), & WO 98/006794 A1 & CA 2262392 A & CN 1230975 A & EP 948582 A1 & US 6190533 B1 & US 6210561 B1	1-9